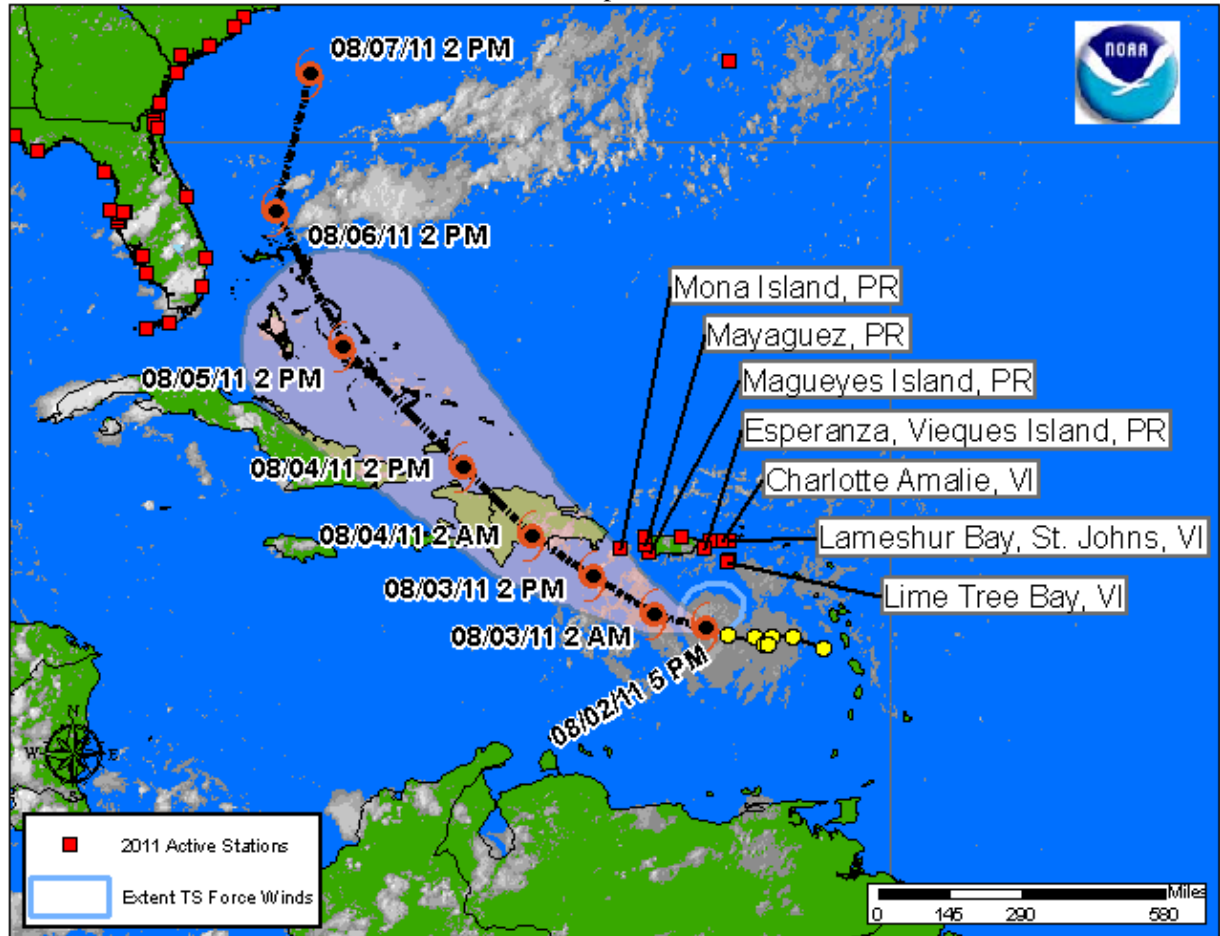




Tropical Storm EMILY QuickLook
Posted: 18:00 AST 08/02/2011

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/02/2011 18:00 AST, water levels in the U.S. Virgin Islands and Puerto Rico are slightly elevated and range from 0.4 to 0.6 feet above predictions. Winds are generally steady, however gusts up to 27 knots have been recorded at Lime Tree Bay, VI and Esperanza, PR. Barometric pressure is slowly falling across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Lime Tree Bay, VI Next predicted high tides are 0.68 ft (0.21 m) at 08/02/2011 23:17 AST and 0.47 ft (0.14 m) at 08/03/2011 09:59 AST.

Lameshur Bay, VI Next predicted high tides are 0.75 ft (0.23 m) at 08/03/2011 00:10 AST and 0.54 ft (0.16

Tropical Storm EMILY QuickLook, POSTED 18:00 AST 08/02/2011

m) at 08/03/2011 12:55 AST.

Charlotte Amalie, VI Next predicted high tides are 0.79 ft (0.24 m) at 08/02/2011 23:53 AST and 0.62 ft (0.19 m) at 08/03/2011 12:53 AST.

Esperanza, PR Next predicted high tides are 0.64 ft (0.20 m) at 08/02/2011 23:03 AST and 0.44 ft (0.13 m) at 08/03/2011 11:00 AST.

Magueyes, PR Next predicted high tides are 0.67 ft (0.20 m) at 08/02/2011 23:13 AST and 0.62 ft (0.19 m) at 08/03/2011 22:10 AST.

Mayaguez, PR Next predicted high tides are 1.10 ft (0.34 m) at 08/02/2011 23:58 AST and 1.01 ft (0.31 m) at 08/03/2011 12:29 AST.

Mona Island, PR Next predicted high tides are 0.70 ft (0.21 m) at 08/02/2011 23:28 AST and 0.47 ft (0.14 m) at 08/03/2011 11:58 AST.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see [Tidal Datums](#). For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:KG

SELECT [NATIONAL HURRICANE CENTER](#) ADVISORY INFORMATION:

TROPICAL STORM EMILY ADVISORY NUMBER 5

500 PM AST TUE AUG 02 2011

...EMILY A LITTLE STRONGER...BUT STILL NOT WELL ORGANIZED...

SUMMARY OF 500 PM AST INFORMATION

LOCATION.

ABOUT 185 MI SSE OF SAN JUAN PUERTO RICO

MAXIMUM SUSTAINED WINDS...50 MPH

PRESENT MOVEMENT...WNW OR 295 DEGREES AT 12 MPH

MINIMUM CENTRAL PRESSURE...1005 MB.

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

THE GOVERNMENT OF THE BAHAMAS HAS ISSUED A TROPICAL STORM WATCH FOR THE SOUTHEAST BAHAMAS AND FOR THE TURKS AND CAICOS ISLANDS.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * PUERTO RICO...VIEQUES AND CULEBRA
- * THE DOMINICAN REPUBLIC
- * HAITI

A TROPICAL STORM WATCH IS IN EFFECT FOR...

- * U.S. VIRGIN ISLANDS
- * SOUTHEAST BAHAMAS AND TURKS AND CAICOS ISLANDS

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 500 PM AST THE CENTER OF TROPICAL STORM EMILY WAS ESTIMATED TO BE NEAR LATITUDE 15.8 NORTH...LONGITUDE 65.4 WEST. EMILY IS MOVING TOWARD THE WEST-NORTHWEST NEAR 12 MPH...19 KM/H... AND THIS GENERAL MOTION WITH A GRADUAL TURN TO THE NORTHWEST IS EXPECTED DURING THE NEXT 24 TO 48 HOURS. THE FORECAST TRACK BRINGS THE CENTER OF EMILY ACROSS HISPANIOLA LATE WEDNESDAY AND INTO THE SOUTHEASTERN BAHAMAS ON THURSDAY.

MAXIMUM SUSTAINED WINDS HAVE INCREASED TO NEAR 50 MPH...WITH HIGHER GUSTS. THESE STRONG WINDS ARE LOCATED MAINLY TO THE NORTH AND EAST OF THE CENTER. SOME SLIGHT STRENGTHENING IS POSSIBLE BEFORE THE CENTER MOVES OVER THE HIGH TERRAIN OF HISPANIOLA.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 105 MILES MAINLY TO THE NORTH AND EAST OF THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 1005 MB.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS ARE EXPECTED IN PUERTO RICO... CULEBRA...AND VIEQUES TONIGHT...AND SHOULD BEGIN TO SPREAD IN THE DOMINICAN REPUBLIC AND HAITI ON WEDNESDAY. TROPICAL STORM CONDITIONS ARE POSSIBLE IN THE U.S. VIRGIN ISLANDS TONIGHT.

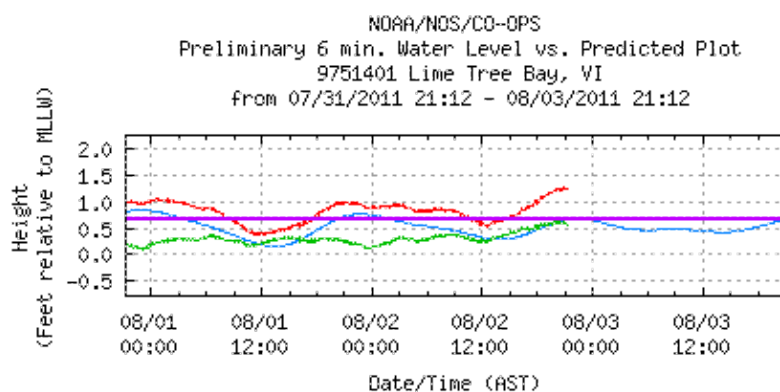
RAINFALL...EMILY IS EXPECTED TO PRODUCE TOTAL RAIN ACCUMULATIONS OF 4 TO 6 INCHES IN PUERTO RICO...THE DOMINICAN REPUBLIC...AND HAITI WITH ISOLATED MAXIMUM AMOUNTS OF 10 INCHES POSSIBLE. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AND MUD SLIDES IN AREAS OF MOUNTAINOUS TERRAIN.

STORM SURGE...A STORM SURGE WILL RAISE WATER LEVELS BY 1 TO 2 FEET ABOVE NORMAL TIDE LEVELS IN THE TROPICAL STORM WARNING AREA. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE AND DANGEROUS WAVES.

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Lime Tree Bay - Water Level](#), [Lime Tree Bay - Winds](#), [Lime Tree Bay - Barometric](#), [Lime Tree Bay - Air/Water Temp](#), [Lameshur Bay, St. John - Water Level](#), [Lameshur Bay, St. John - Barometric](#), [Lameshur Bay, St. John - Air/Water Temp](#), [Charlotte Amalie - Water Level](#), [Charlotte Amalie - Barometric](#), [Charlotte Amalie - Air/Water Temp](#), [Esperanza, Vieques Island - Water Level](#), [Esperanza, Vieques Island - Winds](#), [Esperanza, Vieques Island - Barometric](#), [Esperanza, Vieques Island - Air/Water Temp](#), [Magueyes Island - Water Level](#), [Magueyes Island - Winds](#), [Magueyes Island - Barometric](#), [Magueyes Island - Air/Water Temp](#), [Mayaguez - Water Level](#), [Mayaguez - Winds](#), [Mayaguez - Barometric](#), [Mayaguez - Air/Water Temp](#), [Mona Island - Water Level](#),

Lime Tree Bay, VI - Return to List



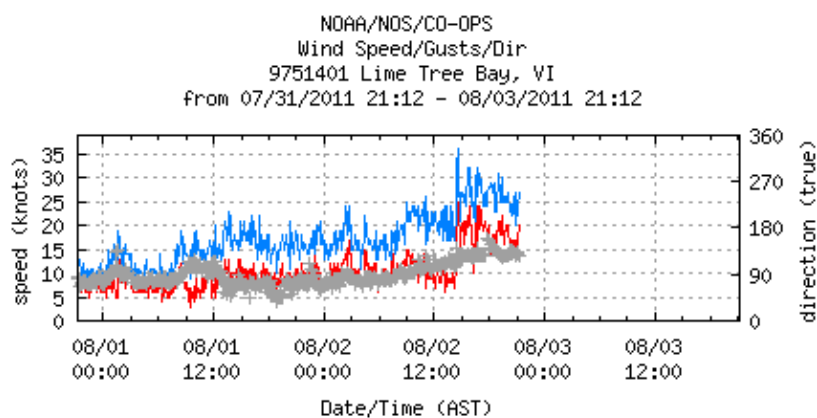
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/02/2011 21:12 (AST)

Relative to MLLW: **Observed: 1.23 ft.** **Predicted: 0.67 ft.** **Residual: 0.56 ft.**

Historical Maximum Water Level: Nov 17 1999, 1.88 ft. above MHHW

Lime Tree Bay, VI - Return to List

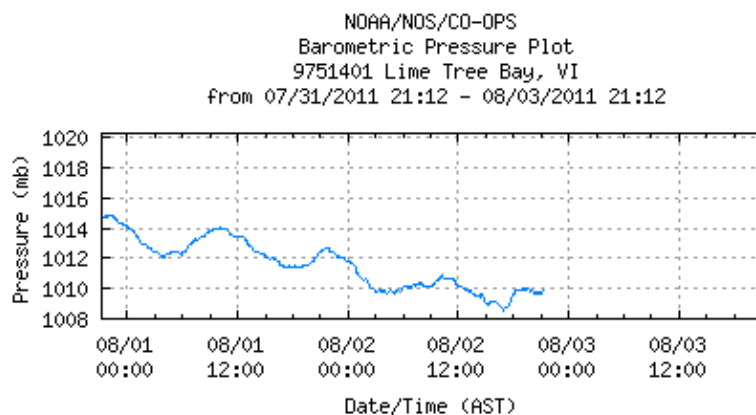


speed — gusts — direction +

Last Observed Sample: 08/02/2011 21:12 (AST)

Wind Speed: 20 knots **Gusts: 27 knots** **Direction: 128° T**

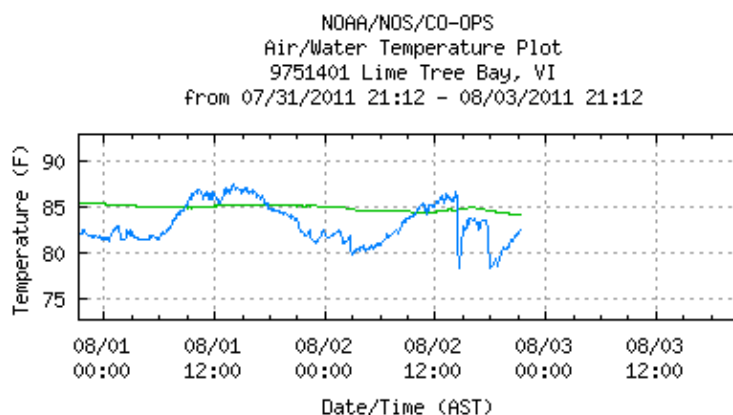
Lime Tree Bay, VI - Return to List



Last Observed Sample: 08/02/2011 21:12 (AST)

Barometric Pressure: 1009.9 mb

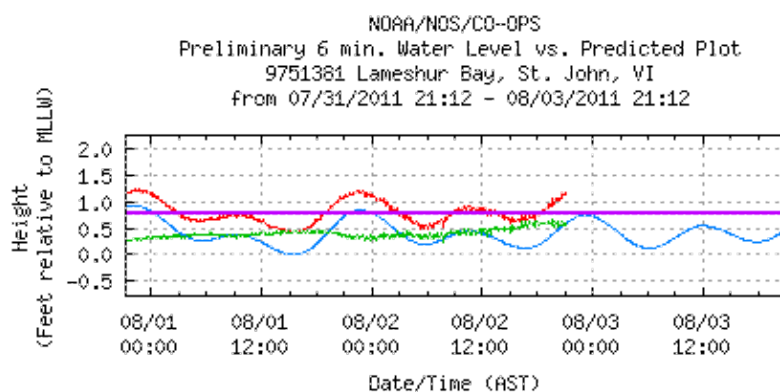
Lime Tree Bay, VI - Return to List



Last Observed Sample: 08/02/2011 21:12 (AST)

Water Temperature: 84.1° F Air Temperature: 82.6° F

[Lameshur Bay, St. John, VI - Return to List](#)



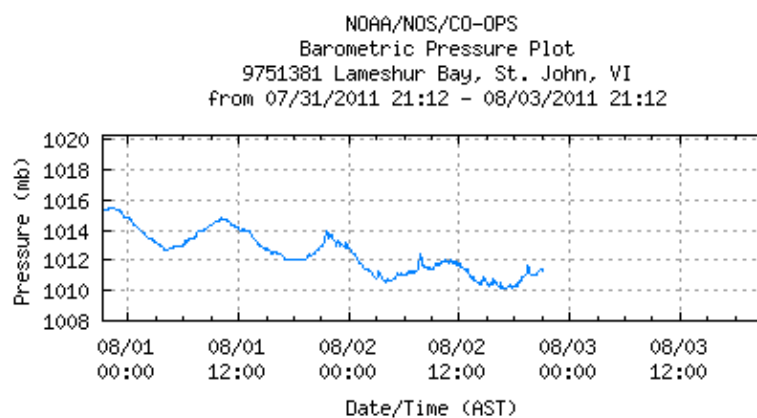
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/02/2011 21:06 (AST)

Relative to MLLW: **Observed: 1.14 ft.** **Predicted: 0.59 ft.** **Residual: 0.55 ft.**

Historical Maximum Water Level: Aug 30 2010, 0.9 ft. above MHHW

[Lameshur Bay, St. John, VI - Return to List](#)

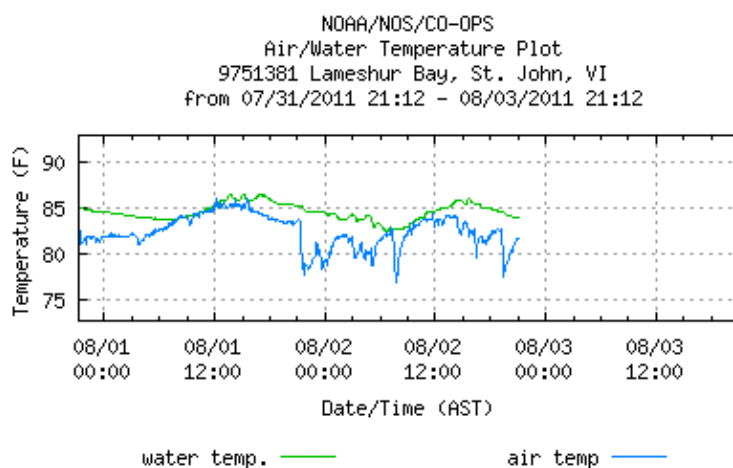


barometric pressure —

Last Observed Sample: 08/02/2011 21:06 (AST)

Barometric Pressure: 1011.3 mb

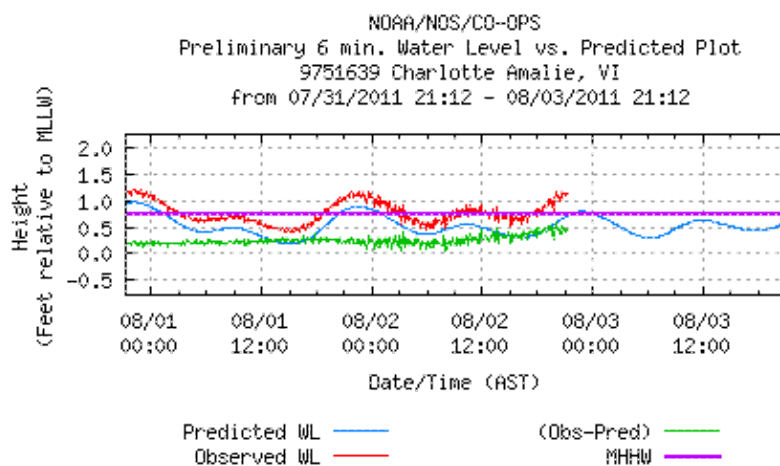
Lameshur Bay, St. John, VI - Return to List



Last Observed Sample: 08/02/2011 21:06 (AST)

Water Temperature: 84.0° F Air Temperature: 81.7° F

Charlotte Amalie, VI - Return to List

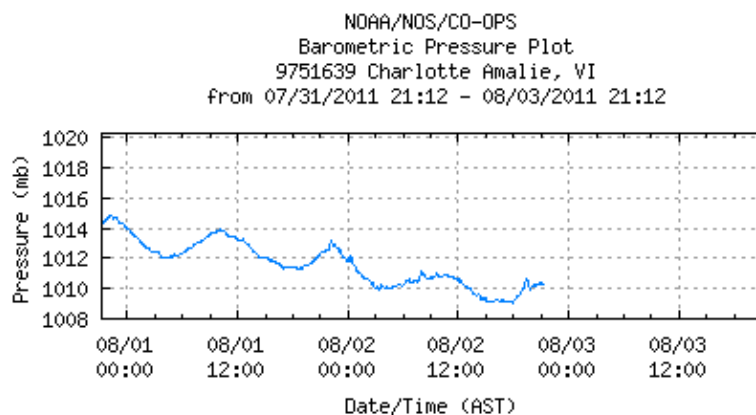


Last Observed Sample: 08/02/2011 21:12 (AST)

Relative to MLLW: Observed: 1.14 ft. Predicted: 0.71 ft. Residual: 0.43 ft.

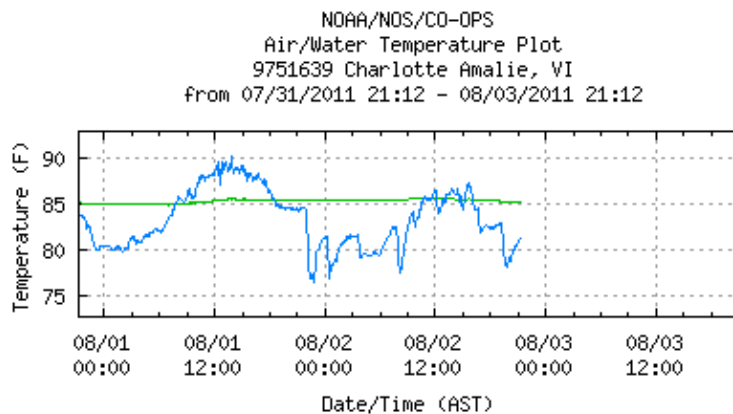
Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above MHHW

[Charlotte Amalie, VI - Return to List](#)



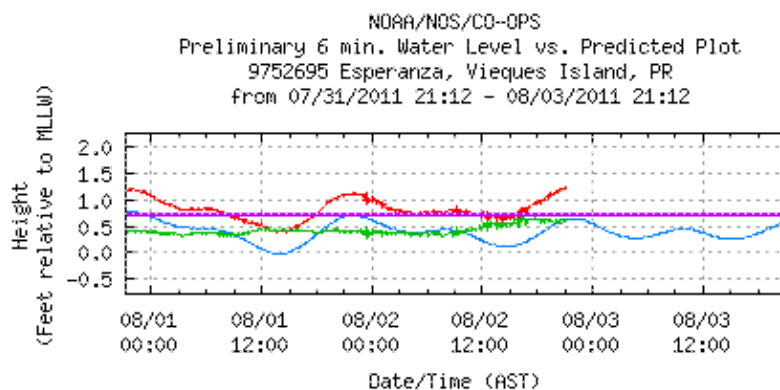
Last Observed Sample: 08/02/2011 21:12 (AST)
Barometric Pressure: 1010.3 mb

[Charlotte Amalie, VI - Return to List](#)



Last Observed Sample: 08/02/2011 21:12 (AST)
Water Temperature: 85.3° F Air Temperature: 81.2° F

[Esperanza, Vieques Island, PR - Return to List](#)



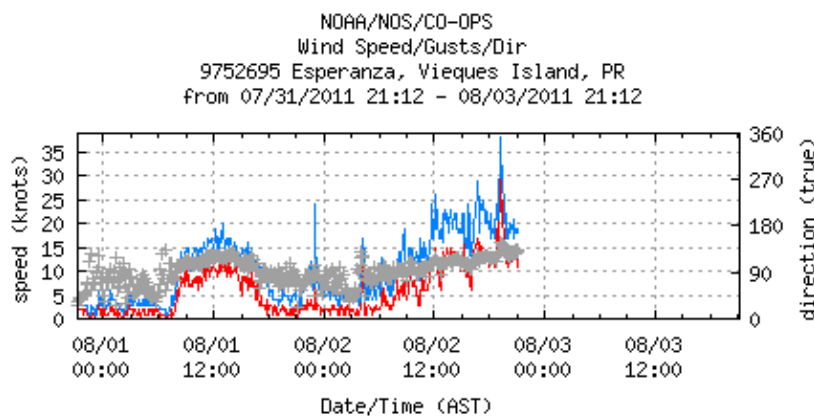
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/02/2011 21:06 (AST)

Relative to MLLW: **Observed: 1.20 ft.** **Predicted: 0.62 ft.** **Residual: 0.58 ft.**

Historical Maximum Water Level: Oct 13 2006, 0.83 ft. above MHHW

[Esperanza, Vieques Island, PR - Return to List](#)

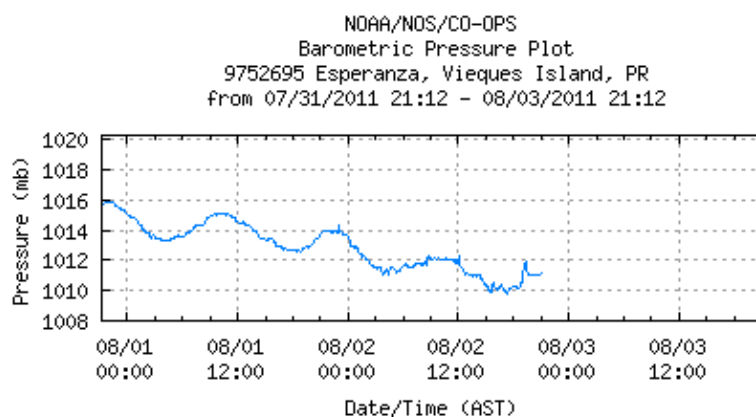


speed — gusts — direction +

Last Observed Sample: 08/02/2011 21:06 (AST)

Wind Speed: 11 knots **Gusts: 19 knots** **Direction: 129° T**

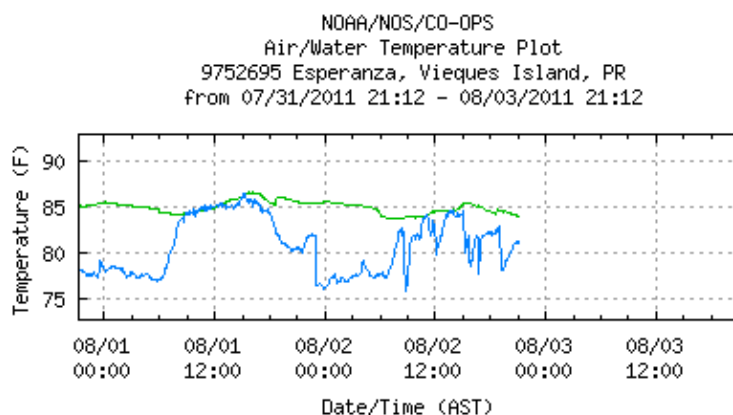
[Esperanza, Vieques Island, PR - Return to List](#)



Last Observed Sample: 08/02/2011 21:06 (AST)

Barometric Pressure: 1011.2 mb

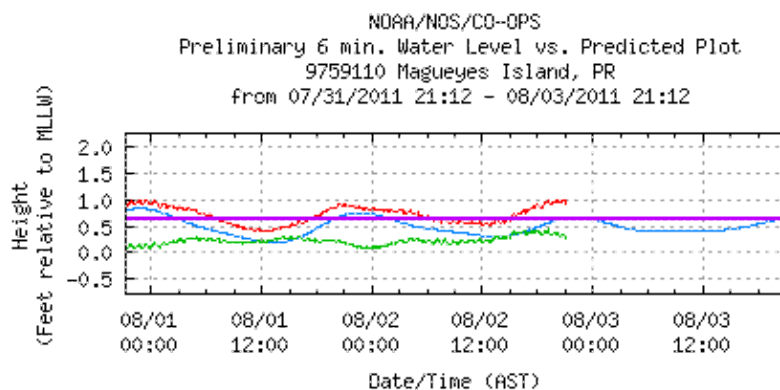
[Esperanza, Vieques Island, PR - Return to List](#)



Last Observed Sample: 08/02/2011 21:06 (AST)

Water Temperature: 84.0° F Air Temperature: 81.0° F

Magueyes Island, PR - Return to List



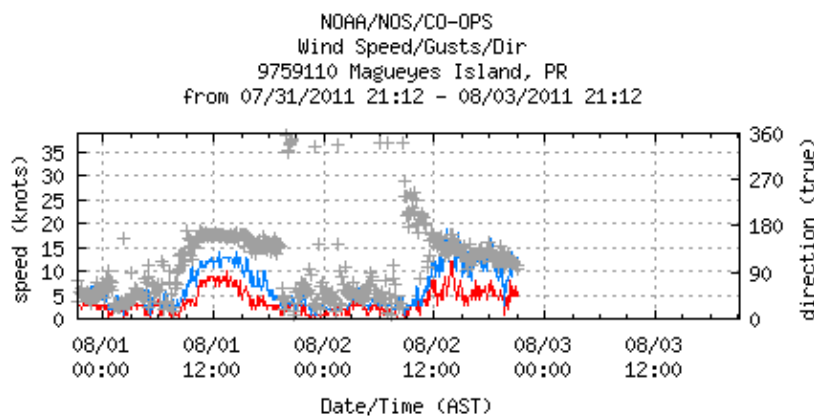
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/02/2011 21:06 (AST)

Relative to MLLW: **Observed: 0.93 ft.** **Predicted: 0.65 ft.** **Residual: 0.28 ft.**

Historical Maximum Water Level: Sep 22 1998, 1.6 ft. above MHHW

Magueyes Island, PR - Return to List

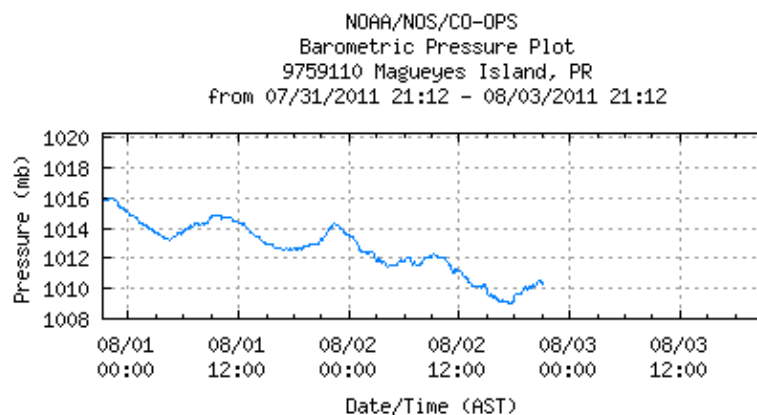


speed — gusts — direction +

Last Observed Sample: 08/02/2011 21:06 (AST)

Wind Speed: 5 knots **Gusts: 13 knots** **Direction: 96° T**

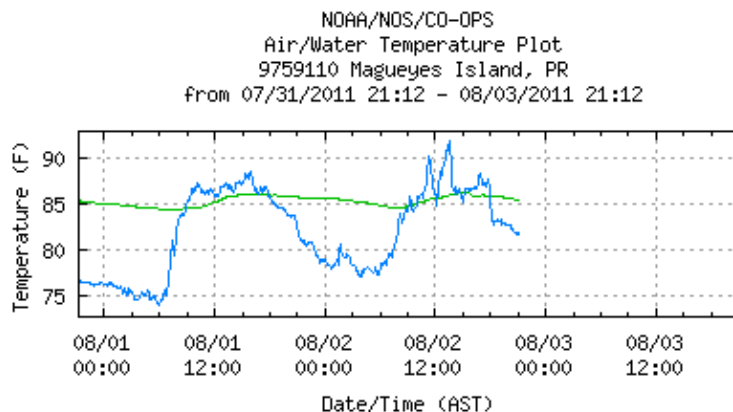
Magueyes Island, PR - Return to List



Last Observed Sample: 08/02/2011 21:06 (AST)

Barometric Pressure: 1010.3 mb

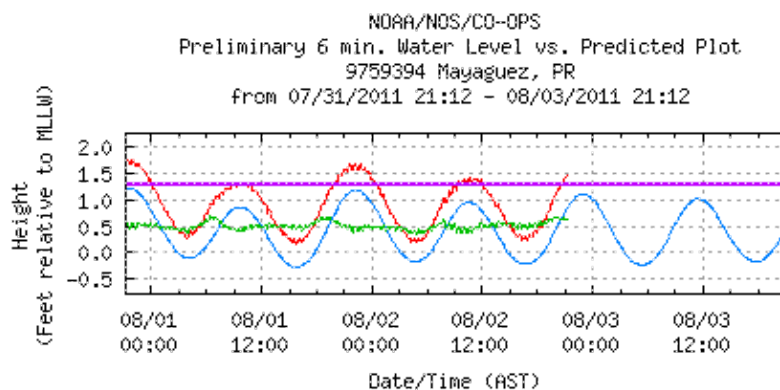
Magueyes Island, PR - Return to List



Last Observed Sample: 08/02/2011 21:06 (AST)

Water Temperature: 85.5° F Air Temperature: 81.9° F

Mayaguez, PR - Return to List

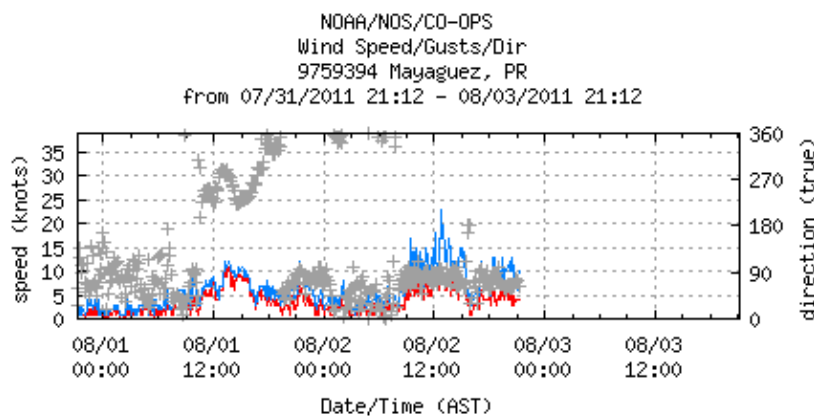


Last Observed Sample: 08/02/2011 21:12 (AST)

Relative to MLLW: **Observed: 1.44 ft.** **Predicted: 0.83 ft.** **Residual: 0.61 ft.**

Historical Maximum Water Level: , 0 ft. above MHHW

Mayaguez, PR - Return to List



Last Observed Sample: 08/02/2011 21:12 (AST)

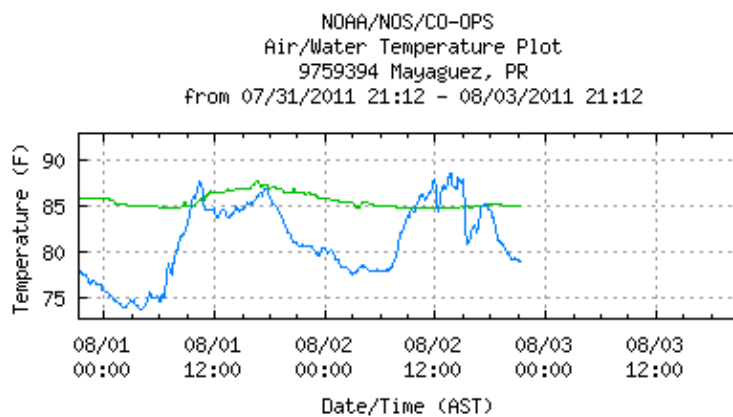
Wind Speed: 4 knots **Gusts: 10 knots** **Direction: 64° T**

[Mayaguez, PR](#) - [Return to List](#)

Last Observed Sample: 08/02/2011 21:12 (AST)

[Barometric Pressure: 1014.1 mb](#)

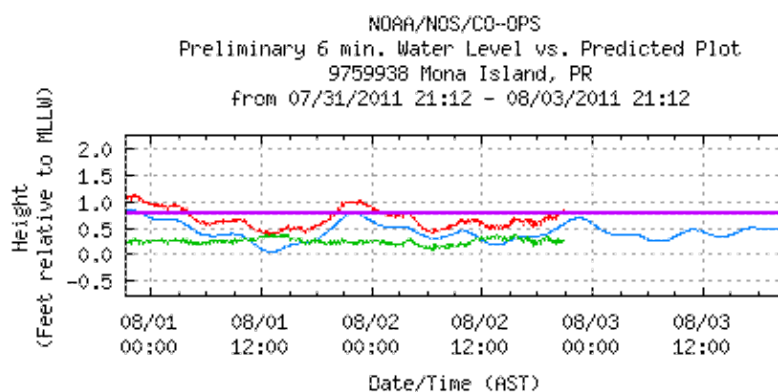
[Mayaguez, PR](#) - [Return to List](#)



Last Observed Sample: 08/02/2011 21:12 (AST)

[Water Temperature: 85.1° F](#) [Air Temperature: 79.0° F](#)

[Mona Island, PR - Return to List](#)



Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/02/2011 20:54 (AST)

Relative to MLLW: **Observed: 0.84 ft.** **Predicted: 0.58 ft.** **Residual: 0.26 ft.**

Historical Maximum Water Level: , 0 ft. above MHHW

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce